

Poly-V Pulleys

Poly-V or Ribbed drive is a special construction Belt drive, which can be used with very small pulley diameters. Poly-V drives help to dampen the noise and vibrations.

Due to reduced pulley size, various applications which require compact drives at high speed are driven by Poly-V drives.

Some of the common applications include engine drive, machine tools, wood working machines, health & fitness utility machines, compressors, fans etc.

Poly-V drives help to achieve optimum drive performance and an augmented drive life.

Standard Poly-V, Pulley groove dimensions:

Cross section	Minimum recommended outer diameter	Groove angle(q) ± 0.25 degrees	Pitch (p)	r_t +0.15 -0.00	2a	r_b	h_g Minimum	d_B ±0.001	s_e
H / PH	13	40	1.60 ± 0.03	0.15	0.58	0.30 +0.00 -0.15	1.04	1.00	2.0 +0.5 -0.3
J / PJ	20	40	2.34 ± 0.03	0.20	0.76	0.40 +0.00 -0.15	1.77	1.50	3.0 +0.8 -0.4
K / PK	40	40	3.56 ± 0.05	0.25	0.96	0.50 +0.00 -0.15	3.16	3.00	3.0 +1.5 -0.0
L / PL	75	40	4.70 ± 0.05	0.40	1.54	0.40 +0.00 -0.15	4.63	4.00	10.0 +2.0 -1.0
M / PM	180	40	9.40 ± 0.08	0.75	2.88	0.75 +0.00 -0.25	9.74	7.00	13.0 +3.0 -1.0

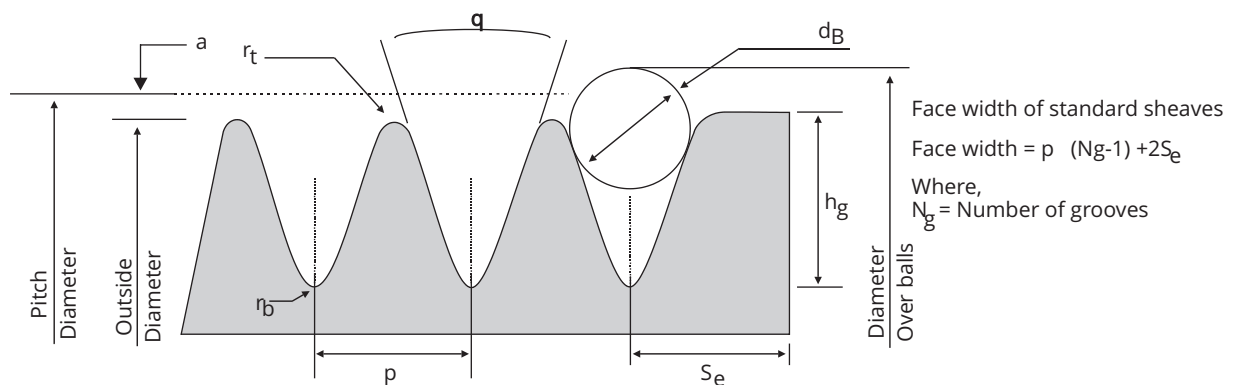
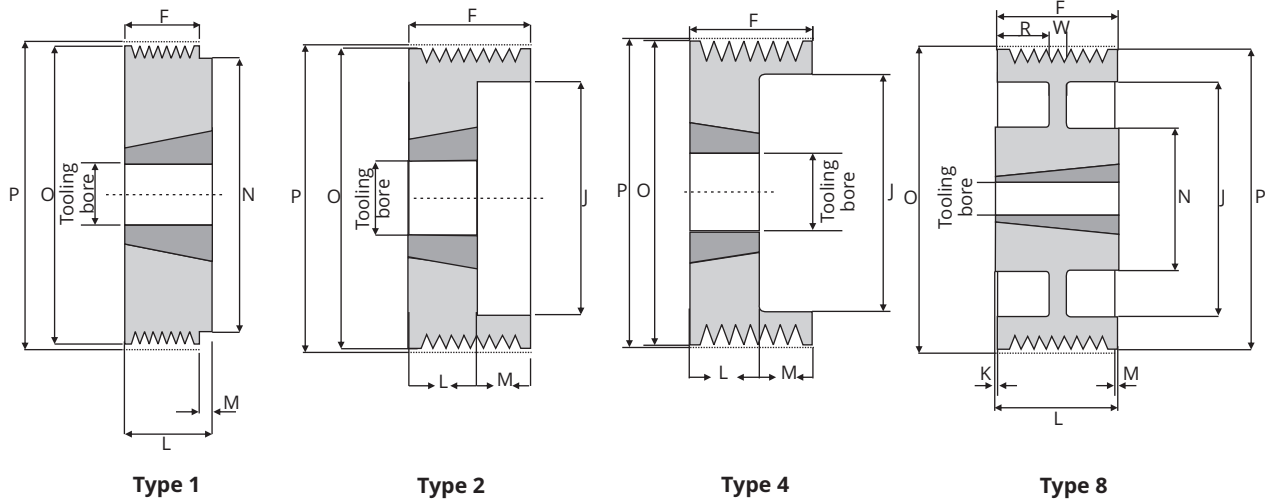


Figure: Standard groove dimensions

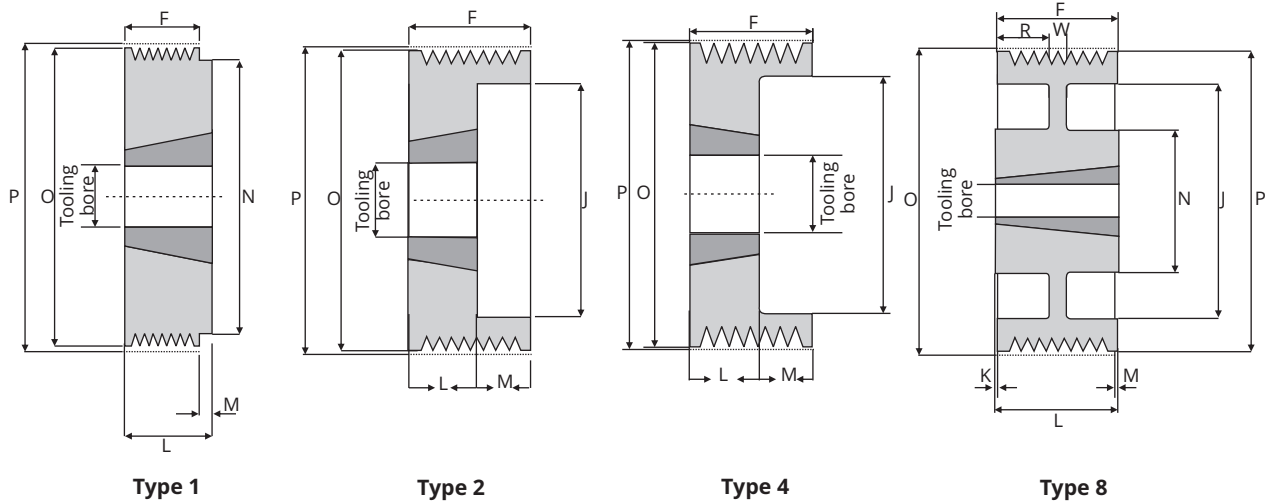
Poly-V (PJ Section Pulleys)



8-grooves

Part Number	Outer Dia (O) (mm)	Pitch Dia (P) (mm)	No. of Grooves	Tooling Bore (mm)	Pulley Type	Bush Size	F	J	L	N	M	K	R	Q	S	W	X	Y	Z	R1	R2
8PJ 075	75.0	77.4	8	25	2	1108	25	59	22	-	3	-	-	-	-	-	-	-	-	-	-
8PJ 080	80.0	82.4	8	32	1	1210	25	-	25	-	-	-	-	-	-	-	-	-	-	-	-
8PJ 085	85.0	87.4	8	32	1	1210	25	-	25	-	-	-	-	-	-	-	-	-	-	-	-
8PJ 090	90.0	92.4	8	40	1	1610	25	-	25	-	-	-	-	-	-	-	-	-	-	-	-
8PJ 095	95.0	97.4	8	40	1	1610	25	-	25	-	-	-	-	-	-	-	-	-	-	-	-
8PJ 100	100.0	102.4	8	40	1	1610	25	-	25	-	-	-	-	-	-	-	-	-	-	-	-
8PJ 106	106.0	108.4	8	40	1	1610	25	-	25	-	-	-	-	-	-	-	-	-	-	-	-
8PJ 112	112.0	114.4	8	40	1	1610	25	-	25	-	-	-	-	-	-	-	-	-	-	-	-
8PJ 118	118.0	120.4	8	40	1	1610	25	-	25	-	-	-	-	-	-	-	-	-	-	-	-
8PJ 125	125.0	127.4	8	40	1	1610	25	-	25	-	-	-	-	-	-	-	-	-	-	-	-
8PJ 132	132.0	134.4	8	40	1	1610	25	-	25	-	-	-	-	-	-	-	-	-	-	-	-
8PJ 140	140.0	142.4	8	40	1	1610	25	-	25	-	-	-	-	-	-	-	-	-	-	-	-
8PJ 160	160.0	162.4	8	50	1	2012	25	-	32	112	7	-	-	-	-	-	-	-	-	-	-
8PJ 180	180.0	182.4	8	50	1	2012	25	-	32	112	7	-	-	-	-	-	-	-	-	-	-
8PJ 200	200.0	202.4	8	50	8	2012	25	184	32	112	7	-	8.50	-	-	8	-	-	-	-	-
8PJ 224	224.0	226.4	8	50	8	2012	25	208	32	112	7	-	8.50	-	-	8	-	-	-	-	-
8PJ 250	250.0	252.4	8	50	8	2012	25	230	32	112	7	-	8.50	-	-	8	-	-	-	-	-
8PJ 315	315.0	317.4	8	50	4	2012	25	295	32	112	3.5	3.5	-	270	135	12	12	24	24	6	6
8PJ 355	355.0	357.4	8	65	4	2517	25	335	45	124	10	10	-	310	150	12	12	24	24	6	6
8PJ 400	400.0	402.4	8	65	4	2517	25	380	45	124	10	10	-	355	150	12	12	24	24	6	6

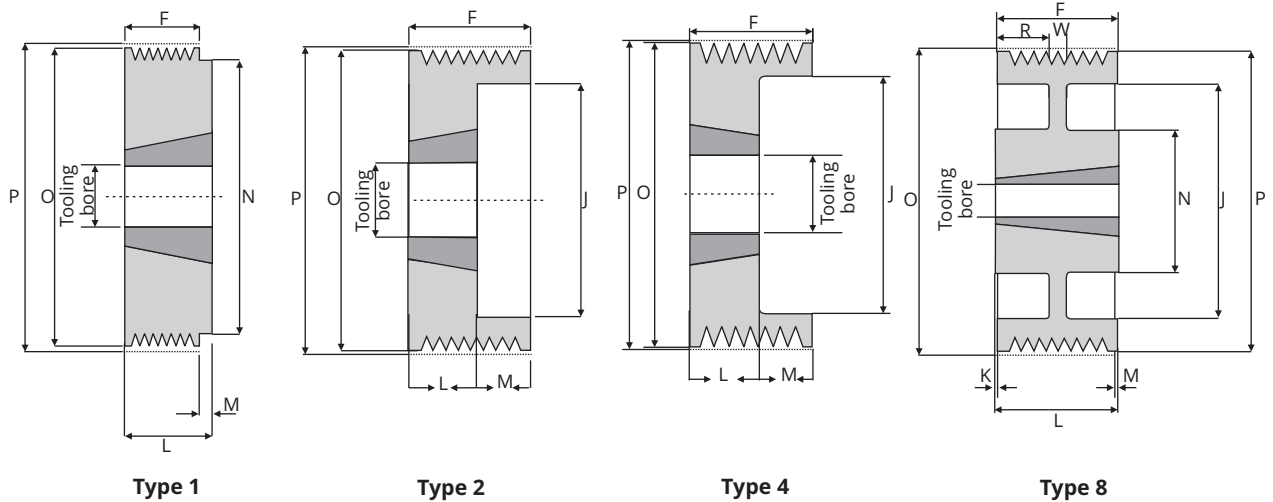
Poly-V (PJ Section Pulleys)



12-grooves

Part Number	Outer Dia (O) (mm)	Pitch Dia (P) (mm)	No. of Grooves	Tooling Bore (mm)	Pulley Type	Bush Size	F	J	L	N	M	K	R	Q	S	W	X	Y	Z	R1	R2
12PJ 075	75	77.4	12	32	2	1210	34	60	25	-	9	-	-	-	-	-	-	-	-	-	-
12PJ 080	80	82.4	12	32	2	1210	34	64	25	-	9	-	-	-	-	-	-	-	-	-	-
12PJ 085	85	87.4	12	32	2	1210	34	69	25	-	9	-	-	-	-	-	-	-	-	-	-
12PJ 090	90	92.4	12	40	2	1610	34	74	25	-	9	-	-	-	-	-	-	-	-	-	-
12PJ 095	95	97.4	12	40	2	1610	34	79	25	-	9	-	-	-	-	-	-	-	-	-	-
12PJ 100	100	102.4	12	40	2	1610	34	84	25	-	9	-	-	-	-	-	-	-	-	-	-
12PJ 106	106	108.4	12	40	2	1610	34	90	25	-	9	-	-	-	-	-	-	-	-	-	-
12PJ 112	112	114.4	12	40	2	1610	34	96	25	-	9	-	-	-	-	-	-	-	-	-	-
12PJ 118	118	120.4	12	40	2	1610	34	102	25	-	9	-	-	-	-	-	-	-	-	-	-
12PJ 125	125	127.4	12	50	2	2012	34	109	32	-	2	-	-	-	-	-	-	-	-	-	-
12PJ 132	132	134.4	12	50	2	2012	34	116	32	-	2	-	-	-	-	-	-	-	-	-	-
12PJ 140	140	142.4	12	65	1	2517	34	-	45	124	11	-	-	-	-	-	-	-	-	-	-
12PJ 160	160	162.4	12	65	1	2517	34	-	45	124	11	-	-	-	-	-	-	-	-	-	-
12PJ 180	180	182.4	12	65	1	2517	34	-	45	124	11	-	-	-	-	-	-	-	-	-	-
12PJ 200	200	202.4	12	65	8	2517	34	184	45	124	5.5	5.5	12	-	-	10	-	-	-	-	-
12PJ 224	224	226.4	12	65	8	2517	34	208	45	124	5.5	5.5	12	-	-	10	-	-	-	-	-
12PJ 250	250	252.4	12	65	8	2517	34	230	45	124	5.5	5.5	12	-	-	10	-	-	-	-	-
12PJ 315	315	317.4	12	65	4	2517	34	295	45	124	5.5	5.5	-	270	150	14	12	28	24	7	6
12PJ 355	355	357.4	12	65	4	2517	34	335	45	124	5.5	5.5	-	310	150	14	12	28	24	7	6
12PJ 400	400	402.4	12	65	4	2517	34	380	45	124	5.5	5.5	-	355	150	18	16	36	32	9	8

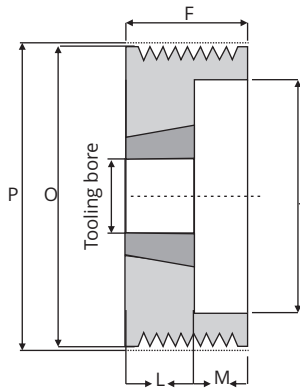
Poly-V (PJ Section Pulleys)



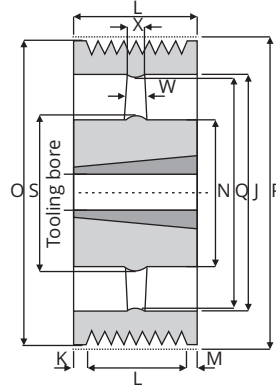
16-grooves

Part Number	Outer Dia (O) (mm)	Pitch Dia (P) (mm)	No. of Grooves	Tooling Bore (mm)	Pulley Type	Bush Size	F	J	L	N	M	K	R	Q	S	W	X	Y	Z	R1	R2
16PJ 075	75	77.4	16	32	2	1210	44	59	25	-	19	-	-	-	-	-	-	-	-	-	-
16PJ 080	80	92.4	16	32	2	1210	44	64	25	-	19	-	-	-	-	-	-	-	-	-	-
16PJ 085	85	87.4	16	40	2	1610	44	70	25	-	19	-	-	-	-	-	-	-	-	-	-
16PJ 090	90	92.4	16	40	2	1610	44	74	25	-	19	-	-	-	-	-	-	-	-	-	-
16PJ 095	95	97.4	16	40	2	1610	44	79	25	-	19	-	-	-	-	-	-	-	-	-	-
16PJ 100	100	102.4	16	40	2	1610	44	84	25	-	19	-	-	-	-	-	-	-	-	-	-
16PJ 106	106	108.4	16	40	2	1610	44	90	25	-	19	-	-	-	-	-	-	-	-	-	-
16PJ 112	112	114.4	16	40	2	1610	44	96	25	-	19	-	-	-	-	-	-	-	-	-	-
16PJ 118	118	120.4	16	50	2	2012	44	102	32	-	12	-	-	-	-	-	-	-	-	-	-
16PJ 125	125	127.4	16	50	2	2012	44	109	32	-	12	-	-	-	-	-	-	-	-	-	-
16PJ 132	132	134.4	16	50	2	2012	44	116	32	124	12	-	-	-	-	-	-	-	-	-	-
16PJ 140	140	142.4	16	65	1	2517	44	-	45	124	1	-	-	-	-	-	-	-	-	-	-
16PJ 160	160	162.4	16	65	1	2517	44	-	45	124	1	-	-	-	-	-	-	-	-	-	-
16PJ 180	180	182.4	16	65	1	2517	44	-	45	124	1	-	-	-	-	-	-	-	-	-	-
16PJ 200	200	202.4	16	65	8	2517	44	184	45	124	1	-	14	-	-	15	-	-	-	-	-
16PJ 224	224	226.4	16	65	8	2517	44	208	45	124	1	-	14	-	-	15	-	-	-	-	-
16PJ 250	250	252.4	16	65	8	2517	44	230	45	124	1	-	14	-	-	15	-	-	-	-	-
16PJ 315	315	317.4	16	65	4	2517	44	295	45	124	1	-	-	270	150	18	16	36	32	9	8
16PJ 355	355	357.4	16	65	4	2517	44	335	45	124	1	-	-	310	150	18	16	36	32	9	8
16PJ 400	400	402.4	16	80	4	3020	44	380	51	159	4.5	4.5	-	355	185	20	18	40	36	10	9

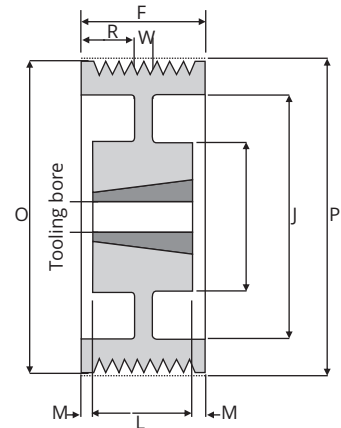
Poly-V (PJ Section Pulleys)



Type 2



Type 5



Type 7

20-grooves

Part Number	Outer Dia (O) (mm)	Pitch Dia (P) (mm)	No. of Grooves	Tooling Bore (mm)	Pulley Type	Bush Size	F	J	L	N	M	K	R	Q	S	W	X	Y	Z	R1	R2
20PJ 075	75	77.4	20	32	2	1210	53	59	25	-	28	-	-	-	-	-	-	-	-	-	-
20PJ 080	80	82.4	20	32	2	1210	53	64	25	-	28	-	-	-	-	-	-	-	-	-	-
20PJ 085	85	87.4	20	40	2	161.0	53	70	25	-	28	-	-	-	-	-	-	-	-	-	-
20PJ 090	90	92.4	20	40	2	1610	53	74	25	-	28	-	-	-	-	-	-	-	-	-	-
20PJ 095	95	97.4	20	40	2	1610	53	79	25	-	28	-	-	-	-	-	-	-	-	-	-
20PJ 100	100	102.4	20	40	2	1610	53	84	25	-	28	-	-	-	-	-	-	-	-	-	-
20PJ 106	106	108.4	20	40	2	1610	53	90	25	-	28	-	-	-	-	-	-	-	-	-	-
20PJ 112	112	114.4	20	40	2	1610	53	96	25	-	28	-	-	-	-	-	-	-	-	-	-
20PJ 118	118	120.4	20	50	2	2012	53	102	32	-	21	-	-	-	-	-	-	-	-	-	-
20PJ 125	125	127.4	20	50	2	2012	53	109	32	-	21	-	-	-	-	-	-	-	-	-	-
20PJ 132	132	134.4	20	50	2	2012	53	116	32	-	21	-	-	-	-	-	-	-	-	-	-
20PJ 140	140	142.4	20	65	2	2517	53	124	45	-	8	-	-	-	-	-	-	-	-	-	-
20PJ 160	160	162.4	20	65	2	2517	53	144	45	-	8	-	-	-	-	-	-	-	-	-	-
20PJ 180	180	182.4	20	65	2	2517	53	164	45	-	8	-	-	-	-	-	-	-	-	-	-
20PJ 200	200	202.4	20	65	7	2517	53	184	45	124	4	4	15	-	-	22	-	-	-	-	-
20PJ 224	224	226.4	20	65	7	2517	53	208	45	124	4	4	15	-	-	22	-	-	-	-	-
20PJ 250	250	252.4	20	65	7	2517	53	230	45	124	4	4	15	-	-	22	-	-	-	-	-
20PJ 315	315	317.4	20	65	5	2517	53	295	45	124	4	4	-	270	150	18	16	36	32	9	8
20PJ 355	355	357.4	20	65	5	2517	53	335	45	124	4	4	-	310	150	18	16	36	32	9	8
20PJ 400	400	402.4	20	80	5	3020	53	380	51	159	1	1	-	355	185	20	18	40	36	10	9